

Substitute for form 1449A/PTO

Complete If Known

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Sheet

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of

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Application Number	To be assigned 10/064,008
Filing Date	Herewith
Applicants	Sumilla; Ingram
Group Art Unit	3748
Examiner Name	D. Tran
Attorney Docket Number	202-0405

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	DOCUMENT NUMBER	KIND CODE ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
DT		3,696,318		Boyd et al	10-10-72	
		3,969,932		Rieger et al	07-20-76	
		4,033,122		Masaki et al	07-05-77	
		4,178,883		Herth	12-18-79	
		4,251,989		Norimatsu et al	02-24-81	
		4,622,809		Abthoff et al	11-18-86	
		4,854,123		Inoue et al	08-08-89	
		4,884,066		Miyata et al	11-28-89	
		4,913,122		Uchida et al	04-03-90	
		5,009,210		Nakagawa et al	04-23-91	
		5,088,281		Izutani et al	02-18-92	
		5,097,700		Nakane	03-24-92	
		5,165,230		Kayanuma et al	11-24-92	
		5,174,111		Nomura et al	12-29-92	
		5,189,876		Hirota et al	03-02-93	
		5,201,802		Hirota et al	04-13-93	
↓		5,209,061		Takeshima	05-11-93	
DT		5,222,471		Stueven	06-29-93	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
DT		DE	196 07 151 C1	Siemens AG	07-10-97	
DT		EP	0 351 197 A2	Johnson Matthey	01-17-90	
DT		EP	0 444 783 A1	Lucas Industries	09-04-91	

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Application Number	To be assigned 10/064,008
Filing Date	Herewith
Applicants	Sumilla; Ingram
Group Art Unit	3748
Examiner Name	J. Tran
Attorney Docket Number	202-0405

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DT		5,233,830		Takeshima et al	08-10-93	
		5,267,439		Raff et al	12-07-93	
		5,270,024		Kasahara et al	12-14-93	
		5,272,871		Oshima et al	12-28-93	
		5,325,664		Seki et al	07-05-94	
		5,331,809		Takeshima et al	07-26-94	
		5,335,538		Blischke et al	08-09-94	
		5,357,750		Ito et al	10-25-94	
		5,377,484		Shimizu	01-03-95	
		5,402,641		Katoh et al	04-04-95	
		5,412,945		Katoh et al	05-09-95	
		5,412,946		Oshima et al	05-09-95	
		5,414,994		Cullen et al	05-16-95	
		5,423,181		Katoh et al	06-13-95	
		5,433,074		Seto et al	07-18-95	
		5,437,153		Takeshima et al	08-01-95	
↓		5,448,887		Takeshima	09-12-95	
DT		5,450,722		Takeshima et al	09-12-95	

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EXAMINER INITIAL*	Cite No. ¹	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
DT		JP	2-207159	Toyota	08-16-90	
		JP	2-30915	Toyota	02-01-90	
		JP	2-33408	Toyota	02-02-90	
↓		JP	3-135417	Matsushita Elec.	06-10-91	
DT		JP	5-106493	Honda	04-27-93	

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				Application Number	To be assigned 10/064,008
				Filing Date	Herewith
				Applicants	Sumilla; Ingram
				Group Art Unit	3748
				Examiner Name	D. Tran
Sheet 3 of 7				Attorney Docket Number	202-0405

U.S. PATENT DOCUMENTS

EXAMINER INITIAL [*]	Cite No. ¹	DOCUMENT NUMBER	KIND CODE ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DT		5,472,673		Goto et al	12-05-95	
		5,473,887		Takeshima et al	12-12-95	
		5,473,890		Takeshima et al	12-12-95	
		5,483,795		Katoh et al	01-16-96	
		5,544,482		Matsumoto et al	08-13-96	
		5,551,231		Tanaka et al	09-03-96	
		5,577,382		Kihara et al	11-26-96	
		5,595,060		Togai et al	01-21-97	
		5,598,703		Hamburg et al	02-04-97	
		5,622,047		Yamashita et al	04-22-97	
		5,655,363		Ito et al	08-12-97	
		5,657,625		Koga et al	08-19-97	
		5,693,877		Ohsuga et al	12-02-97	
		5,713,199		Takeshima et al	02-03-98	
		5,715,679		Asanuma et al	02-10-98	
		5,724,808		Ito et al	03-10-98	
↓		5,732,554		Sasaki et al	03-31-98	
DT		5,735,119		Asanuma et al	04-07-98	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL [*]	Cite No. ¹	Foreign Patent Document			NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	KIND CODE ² (if known)			
DT		JP	5-106494		Honda	04-27-93	
		JP	5-26080		Mitsubishi Motors	02-02-93	
		JP	62-117620		Nippon Shokubai	05-29-87	
↓		JP	6-264787		Nissan Motor	09-20-84	
DT		JP	62-97630		Nippon Shokubai	05-07-87	

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANTS

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Complete if Known

Application Number	To be assigned	10/064,008
Filing Date	Herewith	
Applicants	Sumilla; Ingram	
Group Art Unit	3748	
Examiner Name	D. Tran	

Attorney Docket Number 202-0405

U.S. PATENT DOCUMENTS

EXAMINER INITIAL ¹	Cite No. ¹	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
DT		5,740,669		Kinugasa et al	04-21-98	
		5,743,084		Hepburn	04-28-98	
		5,746,049		Cullen et al	05-05-98	
		5,746,052		Kinugasa et al	05-05-98	
		5,752,492		Kato et al	05-19-98	
		5,792,436		Feeley et al	08-11-98	
		5,842,340		Bush et al	12-01-98	
		5,865,027		Hanafusa et al	02-02-99	
		5,970,707		Sawada et al	10-26-99	
		5,974,793		Kinugasa et al	11-02-99	
		5,983,827		Asik	11-16-99	
		6,014,859		Yoshizaki et al	01-18-00	
		4,036,014		Ariga	07-19-77	
		4,964,272		Kayanuma	10-23-90	
		5,410,873		Tashiro	05-02-95	
		5,412,945		Katoh et al	05-09-95	
↓		5,419,122		Tabe et al	05-30-95	
DT		5,437,153		Takeshima et al	08-01-95	

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EXAMINER INITIAL ¹	Cite No. ¹	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
DT		JP	64-53042	Mitsubishi	03-01-89	
		JP	6-58139	Nissan Motor	03-01-94	
		JP	7-97941	Kazuhiko et al	04-11-95	
↓		EP	0 351 197 A1	Johnson Matthey	01-17-90	
DT		EP	0 503 882 A1	S. Takeshima	09-16-92	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANTS <i>(use as many sheets as necessary)</i>				Application Number	To be assigned 10/064,008
				Filing Date	Herewith
				Applicants	Sumilla; Ingram
				Group Art Unit	3748
				Examiner Name	D. Iran
Sheet 5 of 7				Attorney Docket Number	202-0405

U.S. PATENT DOCUMENTS

EXAMINER INITIAL [*]	Cite No. ¹	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DT		5,452,576		Hamburg et al	09-26-95	
		5,483,795		Katoh et al	01-16-96	
		5,626,014		Hepburn et al	05-06-97	
		5,626,117		Wright et al	05-06-97	
		5,713,199		Takeshima et al	02-03-98	
		5,715,679		Asanuma et al	02-10-98	
		5,722,236		Cullen et al	03-03-98	
		5,771,685		Hepburn	06-30-98	
		5,771,686		Plischinger et al	06-30-98	
		5,778,666		Cullen et al	07-14-98	
		5,802,843		Kurihara et al	09-08-98	
		5,803,048		Yano et al	09-08-98	
		5,832,722		Cullen et al	11-10-98	
		5,938,715		Zang et al	08-17-99	
		5,974,788		Hepburn et al	11-02-99	
		5,974,791		Hirota et al	11-02-99	
DT		5,922,142		Pott	11-30-99	
DT		5,996,338		Hirota	12-07-99	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL [*]	Cite No. ¹	Foreign Patent Document			NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
DT		EP	0 580 389 A1		Toyota	01-26-94	
DT		WP	98/27322		Ford Motor Co.	06-25-98	
DT		JP	7-166851		Toyota	06-27-95	

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		Applicants	Surnilla; Ingram
		Group Art Unit	<u>3748</u>
		Examiner Name	<u>D. Tran</u>
Sheet	6	of	7
		Attorney Docket Number	202-0405

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		Applicants	Sumilla; Ingram
		Group Art Unit	3748
		Examiner Name	<i>D. Tran</i>
Sheet 7 of 7		Attorney Docket Number 202-0405	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL*	Cite No. ^	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>DT</i>		JOE THEIS et al, "An Air/Fuel Algorithm To Improve The NOx Conversion Of Copper-Based Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89.
		Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IIEC-2) PROGRESS REPORT NO. 4, SAE Technical Paper No. 780607, June 5-8, 1978, pp. 119-127.
		ALAN F. DWELL, "Engineered Control Strategies For Improved Catalytic Control of NOx In Lean Burn Applications", SAE Technical Paper No. 881595, 1998, pp. 1-11.
		ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage Effects in Automotive Three-Way Catalysts", SAE 800019, February 25-29, 1980.
		W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships", SAE 800051, February 25-29, 1980.
		WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst Characterization Under Cyclic Conditions", SAE 800052, February 25-29, 1980.
<i>DT</i>		CHRISTOPHER D. DE BOER et al, "Engineered Control Strategies for Improved Catalytic Control of NOx in Lean Burn Applications", SAE 881595, October 10-13, 1988.
		TOSHIAKI YAMAMOTO et al, "Dynamic Behavior Analysis of Three Way Catalytic Reaction", JSAE 882072 - 882168

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